WHAT IS CLAIMED IS:

1. a magnetic tape drive including a head unit,

the head unit has

a plurality of recording heads which record data on a magnetic tape, and

a servo head which performs a readout of a servo signal recorded on the magnetic tape in order to perform a tracking control of the head unit, wherein

recording heads are lined up along the width directions with respect to the magnetic tape,

the distance between adjacent recording heads is the same as the distance between adjacent data tracks to be formed on the magnetic tape by respective recording heads,

azimuth angles of adjacent recording heads differ with each other, and

a plurality of data tracks are simultaneously formed on the magnetic tape by respective recording heads, when performing the recording of data on the magnetic tape.

2. A magnetic tape drive according to claim 1, wherein

the head unit has a plurality of reproducing heads which performs the readout of data written by recording heads from the magnetic tape, wherein reproducing heads are provided in a one-to-one relationship with corresponding recording heads, and wherein

the azimuth angle of each reproducing heads is the same

as that of corresponding recording head.

3. A magnetic tape drive according to claim 2, wherein the width of the reproducing head is longer than the width of the recording head.

4. A magnetic tape drive according to claim 2, wherein the reproducing head has spare reproducing heads at both sides in the width directions with respect to the magnetic tape, wherein

the length and azimuth angle of the spare reproducing head are the same as that of the reproducing head.

5. A magnetic tape drive according to claim 3, wherein the reproducing head has spare reproducing heads at both sides in the width directions with respect to the magnetic tape, wherein

the length and azimuth angle of the spare reproducing head are the same as that of the reproducing head.

6. A magnetic tape drive according to claim 4, wherein only the data obtained by the reproducing head that covers the entire data track in the width directions is used, when two or more reproducing heads are simultaneously located on the data track.

7. A magnetic tape drive according to claim 5, wherein only the data obtained by the reproducing head that covers the entire data track in the width directions is used, when two or more reproducing heads are simultaneously located on the data track.

8. A magnetic tape drive according to claim 1, wherein azimuth angles of adjacent recording heads are established at predetermined different angle whose absolute value is the same value.

9. A magnetic tape drive according to claim 2, wherein azimuth angles of adjacent recording heads are established at predetermined different angle whose absolute value is the same value.

10. A magnetic tape drive according to claim 3, wherein azimuth angles of adjacent recording heads are established at predetermined different angles whose absolute value are the same value.

11. A magnetic tape drive according to claim 4, wherein azimuth angles of adjacent recording heads are established at predetermined different angle whose absolute value is the same value.

12. A magnetic tape drive according to claim 5, wherein azimuth angles of adjacent recording heads are established at predetermined different angle whose absolute value is the same value.

13. A magnetic tape drive according to claim 6, wherein azimuth angles of adjacent recording heads are established at predetermined different angle whose absolute value is the same value.

14. A magnetic tape drive according to claim 7, wherein azimuth angles of adjacent recording heads are established at predetermined different angle whose absolute value is the same value.

15. A magnetic tape drive according to claim 1, wherein azimuth angles of recording heads differs with each other.

16. A magnetic tape drive according to claim 2, wherein azimuth angles of recording heads differs with each other.

17. A magnetic tape drive according to claim 3, wherein azimuth angles of recording heads differs with each other.

18. A magnetic tape drive according to claim 4, wherein azimuth angles of recording heads differs with each other.

19. A magnetic tape drive according to claim 5, wherein azimuth angles of recording heads differs with each other.

20. A magnetic tape drive according to claim 6, wherein azimuth angles of recording heads differs with each other.